EXHIBIT 21

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This Certificate issued under the seal of the Copyright Office in accordance with title 17, *United States Code*, attests that registration has been made for the work identified below. The information on this certificate has been made a part of the Copyright Office records.

Registration Number TX 7-933-364

Effective date of registration:

November 14, 2014

Register of Copyrights, United States of America

Title

Title of Work: Cisco IOS XR version 4.3

Previous or Alternative Title: Cisco IOS XR 4.3

Cisco IOS XR Release 4.3

Cisco IOS XR Software Release 4.3 Cisco IOS XR Software Version 4.3

Cisco Internetwork Operating System version XR version 4.3

Cisco Internetwork Operating System XR release 4.3

Completion/Publication

Year of Completion: 2012

Date of 1st Publication: December 21, 2012

Nation of 1st Publication: United States

Domiciled in: United States

Domiciled in: Ireland

Author

Author: Cisco Systems, Inc.

Author Created: text, computer program

Work made for hire: Yes

Citizen of: United States

■ Author: Bard na nGleann

Author Created: text

Work made for hire: Yes

Citizen of: Ireland

■ Author: HCL Technologies Limited

Author Created: text, computer program

Work made for hire: Yes

Citizen of: India Domiciled in: India

Author: Nichepro Consulting Private Limited

Author Created: text

Work made for hire: Yes

Citizen of: India Domiciled in: India

Author: Innovatia, Inc.

Author Created: text

Work made for hire: Yes

Citizen of: Canada Domiciled in: Canada

Author: Abacus Business Solutions, Inc.

Author Created: computer program

Work made for hire: Yes

Citizen of: United States Domiciled in: United States

Author: Aricent Technologies Mauritius Limited

Author Created: computer program

Work made for hire: Yes

Citizen of: Mauritius Domiciled in: Mauritius

Author: Ensoft Limited

Author Created: computer program

Work made for hire: Yes

Citizen of: United Kingdom Domiciled in: United Kingdom

Author: Infosys Technologies Ltd.

Author Created: computer program

Work made for hire: Yes

Citizen of: India Domiciled in: India

Author: Wipro Limited

Author Created: computer program

Work made for hire: Yes

Citizen of: India Domiciled in: India

Author: Tech Mahindra Limited

Author Created: computer program

Work made for hire: Yes

Citizen of: India Domiciled in: India



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Author: QNX Software Systems Co.

Author Created: computer program

Work made for hire: Yes

Citizen of: Canada Domiciled in: Canada

Copyright claimant

Copyright Claimant: Cisco Technology, Inc.

170 W. Tasman Drive, San Jose, CA, 95134, United States

Transfer Statement: By written agreement

Limitation of copyright claim

Material excluded from this claim: Prior works by claimant and preexisting third party computer code

Previous registration and year: TXu1-592-305 2007

New material included in claim: New and revised computer code and accompanying documentation

Certification

Name: Joshua L. Simmons, Esq.

Date: November 12, 2014

Applicant's Tracking Number: 41593-0036

Registration #: TX0007933364 **Service Request #:** 1-1879984622



Kirkland & Ellis LLP Joshua L. Simmons 601 Lexington Avenue New York, NY 10022 United States